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Amendments to the Claims:

All of the claims are set forth herein with the current status of each noted and the

currently amended claims showing the changes made therein. This listing of claims will

replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended): A damped electromagnetic inductor device,

comprising:

at least one primary coil formed of a continuous conductor having first and second

terminal ends, each primary coil having a helical winding section wound around an interior

space, said at least one primary coil capable of producing magnetic field lines, wherein the

interior space is intersected by said primary coil magnetic field lines; and

at least one secondary closed loop formed of a continuous conductor and being

electrically insulated from said primary coil, said secondary closed loop having a section

wound around said interior space, said secondary closed loop capable of producing eddy

currents in response to said primary coil magnetic field lines; and

wherein said secondary closed loop continuous conductor comprises a single closed

cylindrical loop made from a conductive sheet.

2. (Canceled).

3. (Canceled).

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4. (Currently Amended): The damped electromagnetic inductor device of claim

1, wherein said at least one secondary closed loop comprises a single closed cylindrical loop

made from a conductive sheet is disposed within the interior of said at least one primary coil.

5. (Currently Amended): The damped electromagnetic inductor device of claim

I, wherein said at least one secondary closed loop comprises a single closed cylindrical loop

made from a conductive sheet is disposed around the exterior of said at least one primary

coil.

Claims 6 -21 (Canceled).

22. (Currently Amended): A damped electromagnetic inductor device,

comprising:

at least one primary coil formed of a continuous conductor having first and second

terminal ends, each primary coil having a helical winding section wound around an interior

space, said at least one primary coil capable of producing magnetic field lines, wherein the

interior space is intersected by said primary coil magnetic field lines;

at least one secondary closed loop formed of a continuous conductor and being

electrically insulated from said primary coil, said secondary closed loop having a section

wound around said interior space, said secondary closed loop capable of producing eddy

currents in response to said primary coil magnetic field lines

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The damped electromagnetic inductor device of claim 6, wherein said magnetically

permeable frame comprises first and second encapsulating flux conductive frames,

said first flux conductive frame having a substantially hemispherical or bowl-shaped

outer wall encircling an annular interior space that surrounds a first central core projecting

into the frame's interior, said central core being aligned along a central axis and terminating

in a distal core end;

said second flux conductive frame also having a substantially hemispherical or bowl-

shaped outer wall encircling an annular interior space that surrounds a second central core

projecting into the second frame's interior, said second central core being aligned along a

central axis and terminating in a second distal core end;

wherein said first flux conductive frame and said second flux conductive frame are

releasably juxtaposed together such that the first and second outer walls engage one another

to define an enclosed interior volume dimensioned to receive said first coil and said second

coil;

said first and second central cores being substantially coaxially aligned to carry said

primary coil and said secondary closed loop; and

wherein said first central core's distal end engages said second central core's distal

end to provide a substantially continuous flux path through said first and second central cores

and through said first frame's wall and said second frame's wall.

23. (Previously Presented): The damped electromagnetic inductor device of claim

22, wherein said first and second encapsulating flux conductive frames define substantially

continuous outer wall surfaces meeting in a tight seam, and

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wherein said primary coil's first and second terminals comprise flexible conductors brought outside of the enclosed interior volume through at least a first aperture in one of said first frame's wall and said second frame's wall.

24. (Previously Presented): The damped electromagnetic inductor device of claim22, wherein said magnetically permeable frame is made of iron.

Claims 25 - 30 (Canceled).

31. (Previously Presented): The damped electromagnetic inductor device of claim 4, further comprising:

a magnetically permeable core dimensioned to fit within said interior space, said core carrying (a) said primary coil's magnetic flux and (b) flux induced from eddy currents induced in said closed loop when current flows through said primary coil.

- 32. (Previously Presented): The damped electromagnetic inductor device of claim31, wherein said magnetically permeable core is made of iron.
- 33. (Previously Presented): The damped electromagnetic inductor device of claim5, further comprising:

a magnetically permeable core dimensioned to fit within said interior space, said core carrying (a) said primary coil's magnetic flux and (b) flux induced from eddy currents induced in said closed loop when current flows through said primary coil.